

Abstract

The invention relates to compositions suitable for plasma substitution comprising as a
5 plasma expander a recombinant gelatin-like protein. Characteristic is that the gelatin-
like protein can be a monomer or a polymer like a dimer, trimer or a tetramer of a
human recombinant gelatin-like protein having an isoelectric point of less than 8. The resulting
resulting gelatin-like proteins provide a method to control the clearance rate of a plasma
expander by its molecular weight. Preferably the gelatin-like proteins have a low
10 hydroxyproline content which prevents the composition from gelling and thus allows
the use of high-molecular weight proteins in order to establish a suitable colloid
osmotic pressure. An additional advantage of the gelatin-like proteins is that these
avoid the risk of anaphylactic shock that exists in conjunction with the use of
commercially available preparations.